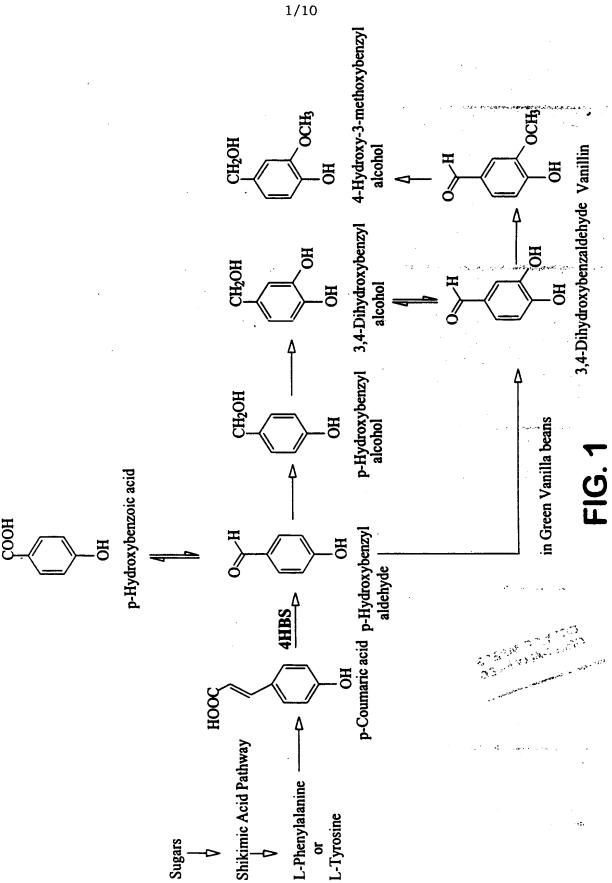
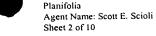
Agent Name: Scott E. Scioli Sheet 1 of 10

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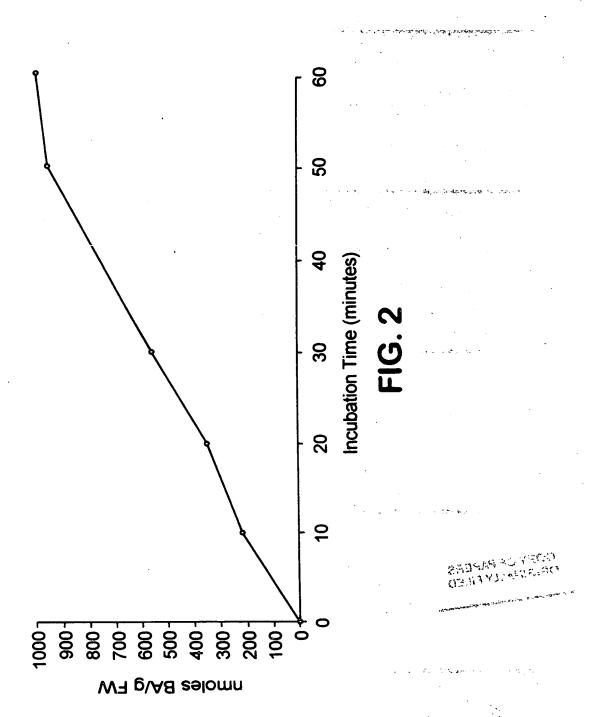


Docket No.: DMCI-0099 — Senal No.: 1998-114. Inventors: Daphna Havkin-Frenkel, et al. 1998-114. Title: Vanillin Biosynthetic Pathway Enzyme from Vanil

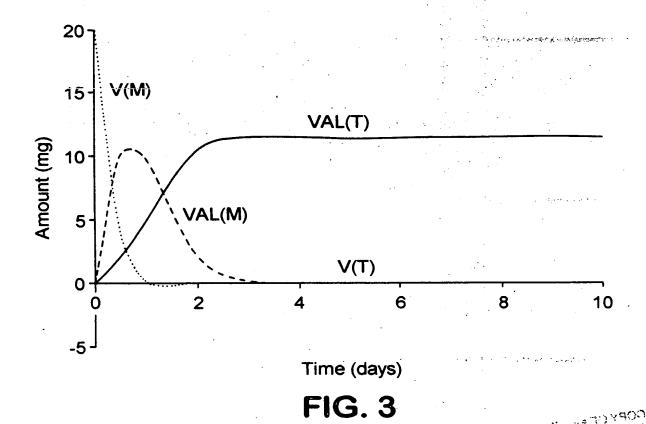
Ph. No.: 215-557-5986





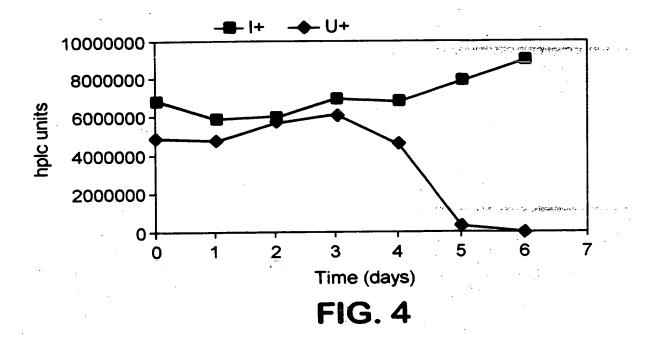


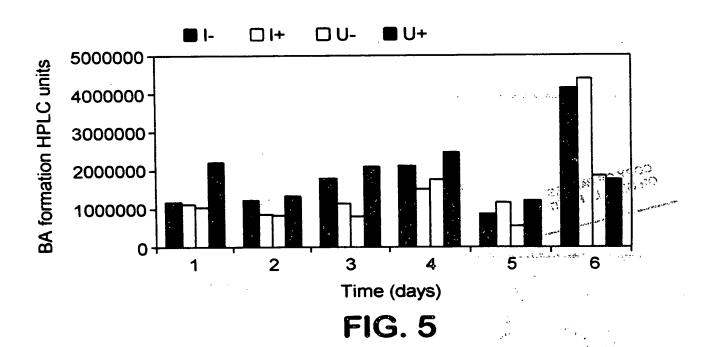
Agent Name: Scott E. Scioli Sheet 3 of 10 Ph. No.: 215-557-5986



Agent Name: Scott E. Scioli Sheet 4 of 10

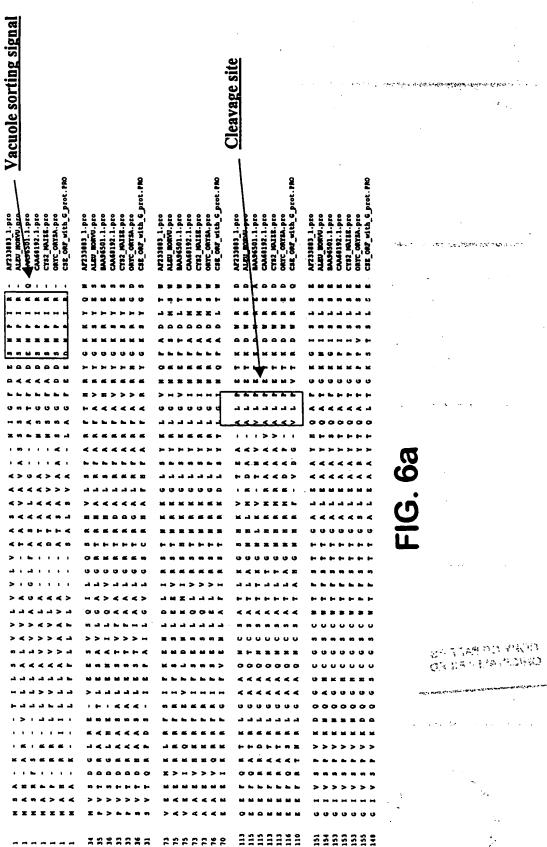
Ph. No.: 215-557-5986





Inventors: Daphna Havkin-Frenkel, et al Title: Vanillin Biosynthetic Pathway Enzyme from Vanilla Planifolia

Agent Name: Scott E. Scioli Sheet 5 of 10 Ph. No.: 215-557-5986



Mdarray 1971212 Inventors: Daphna Havkin-Frenkel, et al Title:Vanillin Biosynthetic Pathway Enzyme from Vanilla lanifolia Agent Name: Scott E. Scioli Sheet 6 of 10 6/10 His active site Vanilla Cysteine Protease with solid deep red residues that match the Consensus exactly.

VCysProt

Asn active site

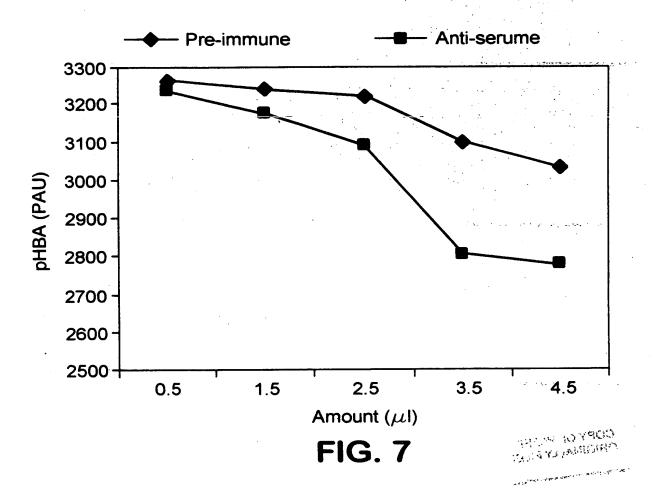
271 271 273 273 275 260 260

Cys active site

Inventors: Daphna Havkin-Frenkel, et al

vile: Vanillin Biosynthetic Pathway Enzyme from Vanilla nnifolia

Agent Name: Scott E. Scioli Sheet 7 of 10 Ph. No.: 215-557-5986



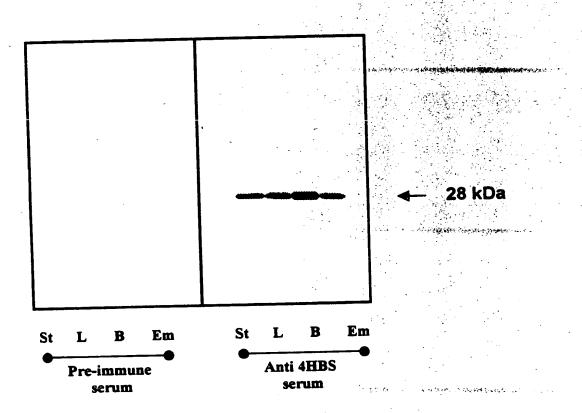


FIG. 8

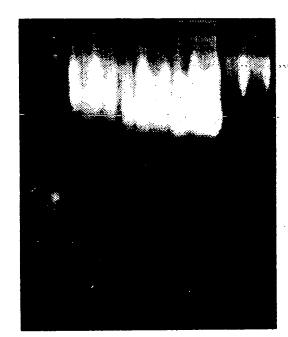
Agent Name: Scott E. Scioli Sheet 9 of 10

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Protease -142 kD -Collagenase Type III

Protease -37 kDa -Chymotrypsin



St L \mathbf{B} Em

FIG. 9

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